

Sample Preservation, Transport and Storage Profiles

November 08, 2004 09:36:15

11113300 New Hampshire Dept. of Environmental Services

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
STS - 001	BOD5	Polyethylene Bottle		500.00	ml	Refrigerated (4 deg C)	Cool, 4 degrees C
STS - 002	E. coli for River Sampling	Polypropylene Bottle		250.00	ml	Wet Ice (4 deg C)	Chilled to <= 10 degrees C
STS - 003	Chlorophyll a	Polyethylene Bottle	Opaque	500.00	ml	Refrigerated (4 deg C)	Unfiltered dark, cool 4 degrees C Filtered, dark - 20 degrees C
STS - 004	Metals/Water	HDPE Bottle	Translucnt	500.00	ml	Refrigerated (4 deg C)	Cool, 4 degrees C, HNO3 to pH<2
STS - 005	Nutrients	HDPE Bottle	Amber	250.00	ml	Refrigerated (4 deg C)	Cool, 4 degrees C, H2SO4 to pH<2
STS - 006	Plankton	Glass Bottle	Clear	150.00	ml	Refrigerated (4 deg C)	2 samples always taken one is preserved with lugol other is live
STS - 007	Winkler DO	Glass Bottle	Green	500.00	ml	Refrigerated (4 deg C)	Sealed with glass stopper without air.
STS - 008	Inorganics	Polyethylene Bottle		500.00	ml	Refrigerated (4 deg C)	No chemical preservatives.
STS - 009	Enterococci for River Sampling	Plastic Bottle	Translucnt	8.00	oz	Wet Ice (4 deg C)	No chemical preservative. Bottles stored on ice in cooler until drop off at lab.
STS - 010	Beach Bacteria Sampling	Polyethylene Bottle	Translucnt	250.00	ml	Wet Ice (4 deg C)	Cool, 4 degrees C
STS - 011	TS, TSS	Polyethylene Container		100.00	ml	Refrigerated (4 deg C)	Cool, 4 degrees C
STS - 012	Alkalinity	Glass Bottle		100.00	ml	Wet Ice (4 deg C)	Also used a 100ml Polyolefin Bottle. Cool, 4 degrees C
STS - 013	TKN, Ammonia	Polyethylene Bottle		250.00	ml	Wet Ice (4 deg C)	Cool, 4 degrees C HNO3 to pH <2.
STS - 014	Total Phosphorus	Polyethylene Bottle	Black	250.00	ml	Wet Ice (4 deg C)	Cool, 4 degrees C H2SO4 to pH <2 light protected (Brown Bottle)

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1111REG1

USEPA, Region I

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
STS-001	Total Suspended Solids	Cubitainer		1.00	qt	Wet Ice (4 deg C)	
STS-002	Chlorophyll - a	Cubitainer		1.00	qt	Wet Ice (4 deg C)	
STS-003	Total Organic Carbon	Glass Vial	Clear	40.00	ml	Wet Ice (4 deg C)	
STS-004	Total Metals	Cubitainer		1.00	qt	Wet Ice (4 deg C)	HNO3 to pH<2
STS-005	Ortho-phosphate	Glass Bottle	Clear	120.00	ml	Wet Ice (4 deg C)	
STS-006	Turbidity	Cubitainer		1.00	qt	Wet Ice (4 deg C)	
STS-007	Color	Cubitainer		1.00	qt	Wet Ice (4 deg C)	
STS-008	Total Phosphorous	Glass Bottle	Clear	1.00	qt	Wet Ice (4 deg C)	H2SO4 to pH<2
STS-009	Ammonia	Glass Bottle	Clear	1.00	qt	Wet Ice (4 deg C)	H2SO4 to pH<2
STS-010	Nitrate-Nitrite	Glass Bottle	Clear	1.00	qt	Wet Ice (4 deg C)	H2SO4 to pH<2
STS-011	Calcium	Cubitainer		1.00	qt	Wet Ice (4 deg C)	HNO3 to pH<2
STS-012	Magnesium	Cubitainer		1.00	qt	Wet Ice (4 deg C)	HNO3 to pH<2
STS-013	Mercury	Cubitainer		1.00	qt	Wet Ice (4 deg C)	HNO3 to pH<2
STS-014	Bacti	Plastic Bottle		150.00	ml	Wet Ice (4 deg C)	

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1117MBR

US EPA Region 7

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
ALKALINITY	Alkalinity	Cubitainer		1.00	l	Wet Ice (4 deg C)	14 day max. holding time.
BOD/CBOD	BOD/CBOD	Cubitainer		1.00	l	Wet Ice (4 deg C)	48 hr max. holding time.
CHLORO-A	Chlorophyll A	Cubitainer		4.00	l	Wet Ice (4 deg C)	Keep in dark, 14 day max holding time.
CN	Cyanide, total & amenable	Cubitainer		1.00	l	Wet Ice (4 deg C)	Ascorbic Acid, if needed to neutralize residual chlorine, NaOH to pH >12. 14 day max. holding time.
COD	COD	Cubitainer		1.00	l	Wet Ice (4 deg C)	H2SO4 to pH <2. 28 day max. holding time.
CONDUCTI	Conductivity	Cubitainer		1.00	l	Wet Ice (4 deg C)	28 day max. holding time. (syn. Specific Conductance)
CR-HEX	Chromium, hexavalent	Cubitainer		1.00	l	Wet Ice (4 deg C)	24 hr max. holding time.
DIOXINS	Dioxins/Furans	Glass Bottle	Amber	128.00	oz	Wet Ice (4 deg C)	maximum holding time 7 days to extract, 40 days after extraction
DO	Dissolved Oxygen (probe)	Glass Bottle				None	Determine immediately.
FISH	Fish Tissue	Aluminum Foil Wrap				Wet Ice (4 deg C)	Double wrap in heavy duty aluminum foil. Fish can be kept on ice for up to 4 days, then frozen, if stored at the lab.
FOLIAGE	Foliage: pesticides/herbicides	Aluminum Foil Wrap				Frozen (0 deg C)	Double wrap in heavy duty aluminum foil. For analysis of metals, semivolatiles, volatiles.
HALIDES	Halides (Br, Cl, FI)	Cubitainer		1.00	l	None	28 day max. holding time.
HARDNESS	Hardness	Cubitainer		1.00	l	Wet Ice (4 deg C)	HNO3 to pH <2. 6 month max. holding time.
HERBICIDE	Herbicides	Glass Bottle	Amber	128.00	oz	Wet Ice (4 deg C)	Max. holding time, 7 days to extraction, 40 days after extraction.
HG	Mercury	Cubitainer		1.00	l		HNO3 to pH <2. 28 day max. holding time.
MACROINV	Macroinvertebrates	Glass Bottle					Preserve in 70% ethanol. 6 month max.

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1117MBR

US EPA Region 7

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
							holding time.
METALS-D	Metals, dissolved	Plastic Bottle		4.00	oz		Filter, HNO ₃ to pH < 2. 6 month max. holding time. (Hg and Cr not included in this procedure.)
METALS-T	Metals, total & acid soluble	Cubitainer		1.00	l		HNO ₃ to pH <2. 6 month max. holding time. (Hg and Cr not included in this procedure.)
N-ORG	Nitrogen, organic	Cubitainer		1.00	l	Wet Ice (4 deg C)	H ₂ SO ₄ to pH <2. 28 day max. holding time.
NH ₃	Nitrogen, ammonia	Cubitainer		1.00	l	Wet Ice (4 deg C)	H ₂ SO ₄ to pH <2. 28 day max. holding time.
NO ₂	Nitrite	Cubitainer		1.00	l	Wet Ice (4 deg C)	48 hr max. holding time.
NO ₃	Nitrate	Cubitainer		1.00	l	Wet Ice (4 deg C)	48 hr max. holding time.
NO ₃ -NO ₂	Nitrate + Nitrite	Cubitainer		1.00	l	Wet Ice (4 deg C)	H ₂ SO ₄ to pH <2. 28 day max. holding time.
OIL&GREASE	Oil and Grease	Glass Bottle		32.00	oz	Wet Ice (4 deg C)	HCL to pH <2, max. holding time 28 days
P-DISS	Phosphorus, dissolved	Cubitainer		1.00	l	Wet Ice (4 deg C)	H ₂ SO ₄ to pH <2. 28 day max. holding time.
P-ORTH	Phosphate, ortho	Plastic Bottle		4.00	oz	Wet Ice (4 deg C)	Filter. 48 hr max. holding time.
P-TOTAL	Phosphorus, total	Cubitainer		1.00	l	Wet Ice (4 deg C)	H ₂ SO ₄ to pH <2. 28 day max. holding time.
PEST/PCB	Pesticides/PCBs	Glass Bottle	Amber	128.00	oz	Wet Ice (4 deg C)	Max. holding time 7 days to extract, 40 days after extraction.
PH	pH	Cubitainer		1.00	l	None	Determine immediately.
PHENOLICS	Phenolics	Glass Bottle		32.00	oz	Wet Ice (4 deg C)	H ₂ SO ₄ to pH <2. Max. holding time 28 days.
RADIONUCL	Radionuclides	Cubitainer		1.00	l		HNO ₃ to pH <2. Max. holding time 6 months.
SEMIVOL	Semivolatiles/BNA	Glass Bottle	Amber	128.00	oz	Wet Ice (4 deg C)	Keep in dark. Max. holding time 7 days to extract, 40 days after extraction.

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US EPA Region 7

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
SO4	Sulfate	Cubitainer		1.00	I	Wet Ice (4 deg C)	28 day max. holding time.
SR	Strontium	Cubitainer		1.00	I	Wet Ice (4 deg C)	HNO3 to pH <2. 6 month max. holding time.
SULFIDES	Sulfides	Cubitainer		1.00	I	Wet Ice (4 deg C)	Zinc acetate + NaOH to pH >9. 7 day max. holding time.

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1119USBR

Bureau of Reclamation

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
CHEMS	Water Sample Transport	Cubitainer	Clear	1.00	I		

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11DELMOD

Delaware River Basin Commission

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
500ICE	500 ml bottle	Plastic Bottle	Clear	500.00	ml	Wet Ice (4 deg C)	sulfuric or nitric acid preserved to <2 pH
ACID120	120 ml bottle with acid	Plastic Bottle	Clear	120.00	ml	Wet Ice (4 deg C)	nitric acid preserved
DARK	Dark Bottle for Chlorophyll A	Glass Bottle	Amber	1.00	l	Wet Ice (4 deg C)	unpreserved
ICED120	120 ml bottles - bacteria	Plastic Bottle	Clear	120.00	ml	Wet Ice (4 deg C)	sodium thiosulfate powder
ICED1L	1 liter iced bottle	Plastic Bottle	Clear	1.00	l	Wet Ice (4 deg C)	unpreserved

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211WVOWR

Division of Water and Waste Management

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
CARBON01	Organic Carbon Compunds	Plastic Bottle	Opaque	250.00	ml	Wet Ice (4 deg C)	Add H2SO4 (Sulfuric Acid) to bring solution to a pH < 2 Standard Units
FIELD1	Field						Determine on site
SAMP10	Dissolved Metals	Cubitainer	Clear	1.00	l	Wet Ice (4 deg C)	Filtered in Field, with nitric acid to pH < 2
SAMP2	None	Cubitainer	Clear	1.00	l	None	None
SAMP3	Inorganic Compounds	Cubitainer	Clear	1.00	l	Wet Ice (4 deg C)	Container placed into ice chest
SAMP4	Nutrients	Cubitainer	Clear	1.00	l	Wet Ice (4 deg C)	Sulfuric Acid (H2SO4) to pH < 2. Place into ice chest
SAMP5	Metals	Cubitainer	Clear	1.00	l	None	Nitric Acid (HNO3) to pH < 2.
SAMP6	Cyanide & Res. Chlorine	Cubitainer	Clear	1.00	l	Wet Ice (4 deg C)	For Cyanide, use NAOH to pH > 12. Ascorbic acid used on sample with residual chlorine. Place in Ice Chests
SAMP7	Coliform & Bacterial	Polypropylene Vial	Clear	100.00	ml	Wet Ice (4 deg C)	Use Pre-sterilized container with 0.008% Sodium Thiosulfate (NA2S2O3). Place into ice chest
SAMP8	Filtered	Cubitainer	Clear	1.00	l	Wet Ice (4 deg C)	Filtered Immediately. Place into ice chest
SAMP9	Other	Cubitainer	Clear	1.00	l		Other as specified

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21CAOCSD

Orange County Sanitation District California

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
TRANS001	Transport procedure	Nalgene Bottle	Opaque			Wet Ice (4 deg C)	

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21DCBAWQ

District of Columbia Dept of Health, Water Quality Division

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
STS-001	Metals\Water	HDPE Bottle	Clear	1.00	l		Sample stored at 4 degree C, preserved with 1:1H2SO4
STS-002	Macro Invertebrates	Glass Bottle	Clear	1.00	gal		
STS-003	Fish tissue	Aluminum Foil Wrap		1.00	l		Preserve with aluminum foil with Acetone or Hexaphane
STS-004	Bacteria/Water	HDPE Bottle	Clear	1.00	l		Cool to 4 deg C, Na2S2O3
STS-005	Nutrients/Water	HDPE Bottle	Clear	1.00	l		Cool to 4 deg C, PH <2
STS-006	inorganic, general, Water	HDPE Bottle	Clear	1.00	l		Cool to 4 deg C
STS-007	organics, general, water	HDPE Bottle	Clear	1.00	l		Cool to 4 deg C

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21FLA

FL Dept. of Environmental Protection

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
WQ01	Routine Samples	HDPE Bottle	Translucnt	.50	gal	Wet Ice (4 deg C)	Stored and transported in a cooler with ice at 4 deg C from time of collection until delivered to lab.
WQ02	Water nutrient samples	HDPE Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	NH3+NH4, NO2+NO3, TKN, TOC and TP preserved with 1:1 H2SO4 to pH of <2 and placed in cooler with ice at 4 deg C until delivery to the lab. D OPO4 is immediately filtered thru a 0.45 micron filter and placed on ice. T OPO4,SO4 and Cl placed on ice
WQ03	Algae Chl a	HDPE Bottle				Wet Ice (4 deg C)	
WQ04	Water Quality Metals	HDPE Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	All metal samples preserved with 2 ml of 1:1 HNO3 to a pH of less than 2 and then stored on ice until delivered to the lab.
WQ05	Bacteria Sampling	Plastic Bag	Clear	150.00	ml	Wet Ice (4 deg C)	

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21FLBROW

Broward Co Dept of Natural Resource Protection

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
STS-001	Bacti bottle	HDPE Bottle	Clear	125.00	ml	Wet Ice (4 deg C)	
STS-002	Whirl-pak bag, large	Plastic Bag	Clear	400.00	ml	Wet Ice (4 deg C)	pH<2 w/sulfuric acid
STS-003	Orthophosphate vial	Glass Vial	Clear	20.00	ml	Wet Ice (4 deg C)	Filter @ 0.45 micron
STS-004	Chlorophyll vial	Glass Vial	Clear	20.00	ml	Wet Ice (4 deg C)	The filter is folded and placed in the vial on ice.
STS-005	Turbidity bag	Plastic Bag	Clear	150.00	ml	Wet Ice (4 deg C)	None
STS-006	Conductivity bottle	Polypropylene Bottle	Translucnt	1000.00	ml	Wet Ice (4 deg C)	None
STS-007	DO bottle	BOD Bottle	Clear	300.00	ml	Wet Ice (4 deg C)	Flocced with alkaline-azide reagent.

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21FLCEN

Florida Department of Environmental Protection

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
SWQCHEM	Chemistry	HDPE Bottle	Translucnt	.50	gal	Wet Ice (4 deg C)	
SWQCHLR	Chlorophyll a/ Pheophytin a	Nalgene Bottle	Opaque	1000.00	ml	Wet Ice (4 deg C)	Kepted dark. Filtered same day as sampled. Stored frozen up to 3 weeks.
SWQCOLI	Total and Fecal Coliforms	Nalgene Bottle	Translucnt	100.00	ml	Wet Ice (4 deg C)	
SWQNUTR	Nutrients	HDPE Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	1 ml H2SO4 added at site.
SWQPHOS	Orthophosphorus	HDPE Bottle	Translucnt	125.00	ml	Wet Ice (4 deg C)	Filtered at collection site.

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21FLCHAR FDEP Charlotte Harbor Aquatic/Buffer Preserves

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
H2SO4	H2SO & Ice Preserved nutrients	Plastic Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	
ICED	Ice preserved samples	Nalgene Bottle	Amber	1.00	l		
ICED-W	Ice preserved whirlpack sample	Plastic Bag	Clear	50.00	ml	Wet Ice (4 deg C)	

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21FLCMP

FL Dept. of Environmental Protection

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
BACTERIA	FLCMP Bacteria	Polypropylene Bottle	Clear	100.00	ml	Wet Ice (4 deg C)	
SAMPLE	FLCMP Preservation	Plastic Bottle	Opaque	1.00	qt	Wet Ice (4 deg C)	

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21FLCOLL

Collier County Pollution Control (Florida)

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
49125	Chlorophyll	HDPE Bottle	Opaque	1.00	l	Wet Ice (4 deg C)	
LKTRAFF	Lake Trafford	Plastic Bottle	Clear	1000.00	ml	Wet Ice (4 deg C)	

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21FLGCWW

Gilcris County Well Watch

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
B001	Bacteria	Plastic Bag	Clear			Wet Ice (4 deg C)	Store on wet ice
M001	Metals - nitric acid	Plastic Bottle				Wet Ice (4 deg C)	Acidify to pH 2 or less with nitric acid
N001	Nutrients - acidified	Plastic Bottle				Wet Ice (4 deg C)	Acidify w/ sulfuric acid to pH 2 or less; store on ice
N002	Nutrients - unpreserved	Plastic Bottle				Wet Ice (4 deg C)	Store on ice

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21FLGFWF **Florida Fish and Wildlife Conservation Commission**

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
STS-001	Water chemistry clear bottle	HDPE Bottle	Clear	1.00	l	Refrigerated (4 deg C)	pH adjusted to <2.0 using 1:1 H2SO4 (2 ml). Sample preserved on wet ice in field and refrigerated in lab.
STS-002	Water chemistry dark bottle	HDPE Bottle	Opaque	1.00	l	Refrigerated (4 deg C)	
STS-003	Metals	HDPE Bottle	Clear	1.00	l	Refrigerated (4 deg C)	pH adjusted to <2.0 using 1:1 HNO3 (2 ml). Sample preserved on wet ice in field and refrigerated in lab.

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21FLHILL

Hillsborough County Environmental

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
BACTERIA1	Bacteria - ambient	Glass Bottle	Clear			Wet Ice (4 deg C)	Transport on wet ice
GENERAL1	General WQ sample	HDPE Bottle	Translucnt			Wet Ice (4 deg C)	
METALS1	Metals-field acidified	HDPE Bottle	Translucnt			Wet Ice (4 deg C)	Adjust to pH 1 w/ nitric acid
NUTRIENT1	Field Acidified Nutrient	HDPE Bottle	Translucnt			Wet Ice (4 deg C)	Acidified to pH 2 w/sulfuric acid
ORTHO P	Orthophosphate	Glass Bottle	Clear			Wet Ice (4 deg C)	
PEST1	Pesticides	Glass Bottle	Amber	1.00	l	Wet Ice (4 deg C)	

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21FLLCPC

Lake County Water Resource Management

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
STS001A	GENERALS/MAJOR IONS	HDPE Bottle	Opaque	1.00	l	Wet Ice (4 deg C)	NO PRESERVATIVES ADDED STORE IN REFRIGERATOR <4 DEG C
STS002B	NUTRIENTS	HDPE Bottle	Opaque	250.00	ml	Wet Ice (4 deg C)	PRESERVED WITH H2SO4 pH<2 STORED IN REFRIGERATOR
STS003C	METALS	HDPE Bottle	Opaque	500.00	ml	Wet Ice (4 deg C)	HNO3 ADDED TO pH<2 STORED IN REFRIGERATOR <4DEG C
STS004D	MICROBIOLOGY WATER	Polyethylene Container	Clear	100.00	ml	Wet Ice (4 deg C)	NO CHEMICAL ADDITIVES FOR ENVIRONMENTAL SAMPLES NOT CHLORINATED REFRIGERATED <4 DEG C
STS005E	MICROBIOLOGY IN WATER W/THIO	Nalgene Bottle	Clear	100.00	ml	Wet Ice (4 deg C)	NA2S2O3 0.008% ADDED TO REMOVE CHLORINE REFRIGERATED <4 DEG C
STS006F	ORTHO PHOSPHORUS	HDPE Bottle	Opaque	125.00	ml	Wet Ice (4 deg C)	NO PRESERVATIVE ADDED SAMPLE FILTERED THROUGH 0.45u FILTER IN FIELD STORED REFRIGERATED <4 DEG C
STS007G	CHLOROPHYLL IN WATER	HDPE Bottle	Amber	1.00	l	Wet Ice (4 deg C)	NO PRESERVATIVE STORED REFRIGERATED <4 DEG C

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21FLLOX

Loxahatchee River District

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
STOR-01	Basic Bottle	Plastic Bottle	Translucnt	1.00	l	Wet Ice (4 deg C)	
STOR-02	Basic Bottle H2SO4	Plastic Bottle	Translucnt	1.00	l	Wet Ice (4 deg C)	1 ml H2SO4 per 1 L bottle
STOR-03	Chlorophyll Bottle	Plastic Bottle	Opaque	2.00	l	Wet Ice (4 deg C)	
STOR-04	Sterile Bacteria Bag	Plastic Bag	Clear	120.00	ml	Wet Ice (4 deg C)	

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21FLLOXB

Loxahatchee River District

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
STORAGE	Mac-Preservation	Glass Bottle	Clear	1.00	l		Sieve, Bottle, in 10% Formalin

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21FLMANA

Manatee County Environmental Management Dept (Florida)

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
STSA	A Bottle	Plastic Bottle	Translucnt	.50	gal	Wet Ice (4 deg C)	
STSB	B Bottle	Plastic Bottle	Translucnt	16.00	oz	Wet Ice (4 deg C)	Acidify to pH <2.0
STSCB	Brown C Bottle	Plastic Bottle	Opaque	500.00	ml	Wet Ice (4 deg C)	
STSD	D Bottle	Plastic Bottle	Translucnt	8.00	oz	Wet Ice (4 deg C)	Acidify to pH < 2.0
STSE	E Bottle	Plastic Bottle	Translucnt	8.00	oz	Wet Ice (4 deg C)	
STSFL	Large F Bottle	Glass Bottle	Clear	500.00	ml	Wet Ice (4 deg C)	Sterile
STSFS	Small F Bottle	Glass Bottle	Clear	150.00	ml	Wet Ice (4 deg C)	Sterile
STSGW	Wide-mouth G Bottle	Plastic Bottle	Translucnt	4.00	oz	Wet Ice (4 deg C)	
STSHW	Wide-mouth H Bottle	Plastic Bottle	Translucnt	4.00	oz	Wet Ice (4 deg C)	

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21FLNWFD

Northwest Florida Water District

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
SAMTRAN-01	Water Sample-Nutrient	HDPE Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	pH lowered to - 2 w/sulfuric acid
SAMTRAN-02	Macroinvertebrates	Glass Bottle	Clear	1.00	gal	None	70% ETOH
SAMTRAN-03	Metals/Water	HDPE Bottle	Clear	500.00	ml	Refrigerated (4 deg C)	cool to 4 degrees C, adjust pH - 2.0 with HNO3
SAMTRAN-04	Sediment Chemistry	Teflon Bottle	Translucnt	2.00	gal	Refrigerated (4 deg C)	None
SAMTRAN-05	Radiological Tests	Glass Bottle	Clear	1.00	l	None	HNO3 adjust to pH<2.0
SAMTRAN-06	Organics general/water	HDPE Bottle	Amber	1.00	l	Refrigerated (4 deg C)	cool to 4 deg C, 0.008% Na2S2O3,HCl to pH<2.0
SAMTRAN-07	Fish	Glass Bottle	Amber	1.00	gal	None	70% formalin
SAMTRAN-08	Nutrients/water	HDPE Bottle	Clear	1.00	l	Refrigerated (4 deg C)	cool to 4 deg C, adjust ph-2.0 H2SO4
SAMTRAN-09	Metals low level/water	Teflon Bottle	Clear	1.00	l	Refrigerated (4 deg C)	cool to 4 deg C, adjust pH - 2.0 with HNO3
SAMTRAN-10	Bacteria/Water	Plastic Bag	Clear	4.00	oz	Refrigerated (4 deg C)	cool to 4 deg C
SAMTRAN-11	Inorganic, general, water	HDPE Bottle	Clear	1.00	l	Refrigerated (4 deg C)	cool to 4 deg C, adjust pH - 2.0 with H2S04
SAMTRAN-12	Pesticides/Water	HDPE Bottle	Clear	1.00	l	Refrigerated (4 deg C)	cool to 4 deg C, adjust pH 5-9
SAMTRAN-13	Fish Tissue	Plastic Bag	Clear	1.00	gal	Wet Ice (4 deg C)	None

Sample Preservation, Transport and Storage Profiles

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21FLPDEM

Pinellas County Dept. of Environmental Management

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
STS 001	water - 1 quart container	Polypropylene Bottle	Opaque	1.00	qt	Wet Ice (4 deg C)	Cool to 4 degrees C, adjust pH < 2 by acidifying with H2SO4, transport coolers to lab by vehicle
STS 002	Water - 1/2 gallon container	Polypropylene Bottle	Opaque	.50	gal	Wet Ice (4 deg C)	Cool to 4 degrees C, transport coolers to lab by vehicles
STS 003	water - Ortho P container	HDPE Bottle	Opaque	125.00	ml	Wet Ice (4 deg C)	filtered with 0.45 micron filter, cooled to 4 degrees C, transport coolers to lab with vehicles
STS 004	water - chlorophyll container	HDPE Bottle	Amber	1000.00	ml	Wet Ice (4 deg C)	Cooled to 4 degrees C, transport coolers to lab with vehicles
STS 005	water - 125mL nitric	HDPE Bottle	Opaque	125.00	ml	Wet Ice (4 deg C)	collected in 125 mL nitric washed bottle, placed in ice inside a cooler to 4 degrees C, transported to the lab where it is preserved with nitric acid

Sample Preservation, Transport and Storage Profiles

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21FLPOLK

Polk County Water Resources

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
STS-01	Metals/Water	HDPE Bottle	Clear	1.00	l	None	HN03
STS-02	Nutrient/Water	HDPE Bottle	Clear	500.00	ml	Wet Ice (4 deg C)	H2SO4 & Refrigerated
STS-03	General/Water	HDPE Bottle	Clear	2.00	l	Wet Ice (4 deg C)	Refrigerated
STS-04	Bacteria/Water	Plastic Bag	Clear	4.00	oz	Wet Ice (4 deg C)	Whirlpac bag - Refrigerated
STS-05	Bacteria/Water	Polypropylene Container	Clear	4.00	oz	Wet Ice (4 deg C)	Sterile
STS-06	Water Quality Sampling	HDPE Bottle	Clear				General bottle - 2.00 l - Wet Ice - Refrigerate; Nutrient Bottle - 500 ml - H2SO4 - Wet Ice - Refrigerate; Metal Bottle - 1.00 l - HN03; Bacteria - Whirlpac bag - 4 oz. - Wet Ice - Refrigerate
STS-07	Water Quality Sampling	HDPE Bottle	Clear				

Sample Preservation, Transport and Storage Profiles

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21FLSFWM

South Florida Water Management District

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
WST1	WATER SAMPL TRANSPORT	Polyethylene Container	Opaque	250.00	ml	Wet Ice (4 deg C)	

Sample Preservation, Transport and Storage Profiles

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21FLTPA **Florida Department of Environmental Protection**

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
SOP-1	Standard Method						

Sample Preservation, Transport and Storage Profiles

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21FLVEMD

Volusa County Environmental Health Lab

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
STS-001	Inorganic, physical, water	Nalgene Bottle	Translucnt	500.00	ml		Cool to 4 deg C.
STS-002	Inorganic, filt nutr, water	Nalgene Bottle	Translucnt	250.00	ml		Cool to 4 deg C.
STS-003	Inorganic, unfilt nutr, water	Nalgene Bottle	Translucnt	125.00	ml		Pre-preserved with 2-3 drops conc. H2SO4, cooled to 4 deg C.
STS-004	Organic, chlorophyll, water	Nalgene Bottle	Opaque	1.00	l		Cool to 4 deg C.
STS-005	Organic, chlorophyll, water	Nalgene Bottle	Opaque	2.00	l		Cool to 4 deg C.
STS-006	DB, Inorganic, TSS	Nalgene Bottle	Translucnt	500.00	ml		Cool to 4 deg C.
STS-007	DB, Inorganic, turbidity	Nalgene Bottle	Translucnt	125.00	ml		Cool to 4 deg C.
STS-008	DB, Inorganic, TP/TKN	Nalgene Bottle	Translucnt	125.00	ml		Pre-preserved with 2-3 drops conc. H2SO4, cooled to 4 deg C.
STS-009	Inorg, filt nutr, acid water	Nalgene Bottle	Clear	125.00	ml	Refrigerated (4 deg C)	Sulfuric acid to pH<2
STS-010	Sterile whirl-pak	Plastic Bag	Clear	125.00	ml	Refrigerated (4 deg C)	

Sample Preservation, Transport and Storage Profiles

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21FLWPB

Florida Department of Environmental Protection

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
STS-001	ICE/REFRIGERATION					Wet Ice (4 deg C)	
STS-002	ACIDIFICATION WITH SULFURIC						
STS-003	ADDITION OF NAOH PH>12						
STS-004	REFRIG/ZNACETATE/NAOH						
STS-005	ACIDIFICATION WITH NITRIC ACID						

Sample Preservation, Transport and Storage Profiles

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21FLWQA

Florida Department of Environmental Protection

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
ICE	Samples kept on ice					Wet Ice (4 deg C)	May also include the addition of the proper acid for stabilization.

Sample Preservation, Transport and Storage Profiles

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21HI

Hawaii Dept. of Health

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
BOTTLE01B	Water bottle	Plastic Bottle	Opaque	1.00	l	Wet Ice (4 deg C)	
BOTTLE01C	Water bottle	Plastic Bottle	Opaque	1.00	l	Wet Ice (4 deg C)	Analyze samples ASAP.
BOTTLE02	Sample bags	Plastic Bag	Clear	500.00	ml	Wet Ice (4 deg C)	

Sample Preservation, Transport and Storage Profiles

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21IOWA

Iowa Dept. of Natural Resources

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
BACT-PRE	Preserved Bacteria Bottle	Glass Bottle	Amber	100.00	ml	Refrigerated (4 deg C)	Sodium Thiosulfate Powder
BACTERIA	Bacteria (3 types) Bottle	Glass Bottle	Amber	100.00	ml	Refrigerated (4 deg C)	None
CBOD	CBOD bottle	HDPE Bottle	Opaque	500.00	ml	Refrigerated (4 deg C)	None
CHLOROPHYL	Chlorophyll Bottle	HDPE Bottle	Opaque	1.00	l	Refrigerated (4 deg C)	None
CONDUCT	Specific Conductance	HDPE Bottle	Opaque	250.00	ml	Refrigerated (4 deg C)	None
CYANIDE	Cyanide Collection Bottle	HDPE Bottle	Opaque	500.00	ml	Refrigerated (4 deg C)	Sodium Hydroxide Preservative
HARDNESS	Water Hardness Bottle	HDPE Bottle	Opaque	100.00	ml	Refrigerated (4 deg C)	None
HERBICIDES	Common Herbicides Bottle	Glass Bottle	Clear	1.00	l	Refrigerated (4 deg C)	None
HTEST	Home Test Kit	Glass Bottle	Amber	100.00	ml	Refrigerated (4 deg C)	None
METALS	Metals Bottle	HDPE Bottle	Opaque	500.00	ml	Refrigerated (4 deg C)	Nitric Acid Preservative
N-SERIES	Nitrogen Series Bottle	HDPE Bottle	Opaque	250.00	ml	Refrigerated (4 deg C)	Sulfuric Acid Preservative
ORTHO_P	Filterable Orthophosphate P	HDPE Bottle	Opaque	250.00	ml	Refrigerated (4 deg C)	None
PESTICIDES	Pesticides Bottle	Glass Bottle	Amber	1.00	l	Refrigerated (4 deg C)	None
SEMIVOLAT	Semi-Volatile Compounds	Glass Bottle	Clear	1.00	l	Refrigerated (4 deg C)	None
TDS	Total Dissolved Solids	HDPE Bottle	Opaque	250.00	ml	Refrigerated (4 deg C)	None
TSS	Total Suspended Solids Bottle	HDPE Bottle	Opaque	.50	gal	Refrigerated (4 deg C)	None
UHL-18	UHL #18 bottle	Glass Bottle	Clear	1.00	qt	Refrigerated (4 deg C)	
UHL-32	UHL #32 bottle	Plastic Bottle	Clear	4.00	oz	Refrigerated (4 deg C)	Sodium thiosulfate

Sample Preservation, Transport and Storage Profiles

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21MICH

Michigan Department of Environmental Quality

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
250ML	250 ml Glass Bottle	Glass Bottle	Clear	250.00	ml	Frozen (0 deg C)	
500ML	500 ml Plastic Bottle	Plastic Bottle	Clear	500.00	ml	Frozen (0 deg C)	
AMBER	1 Liter Amber Glass Bottle	Glass Bottle	Amber	1.00	l	Frozen (0 deg C)	
VIAL	Glass Vial	Glass Vial	Clear	40.00	ml	Frozen (0 deg C)	
VIALSEPTA	Glass Vial - Septa	Glass Vial w/ Septa	Clear	40.00	ml	Frozen (0 deg C)	

Sample Preservation, Transport and Storage Profiles

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21NC01WQ

NCDENR-DWQ

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
COLIFORM	FECAL AND TOTAL COLIFORM	Nalgene Bottle	Translucnt	250.00	ml	Wet Ice (4 deg C)	Sterile bottles are supplied to field staff by the Central Chemistry Laboratory and contain sodium thiosulfate and EDTA.

Sample Preservation, Transport and Storage Profiles

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21NC02WQ

NCDENR-DWQ (2nd)

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
CHLORIDE	Chlorides	Plastic Bottle	Translucnt	200.00	ml	Wet Ice (4 deg C)	
CHLOROPH	Chlorophyll a	Plastic Bottle	Opaque	500.00	ml	Wet Ice (4 deg C)	
COLIFORM	Fecal and Total Coliform	Nalgene Bottle	Translucnt	250.00	ml	Wet Ice (4 deg C)	Sterile bottles are supplied to field staff by the Central Laboratory and contain Sodium Thiosulfate and EDTA.
COLOR	Color	Plastic Bottle	Translucnt	200.00	ml	Wet Ice (4 deg C)	
FLUORIDE	Fluoride	Plastic Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	
METALS	Metals	Plastic Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	Nitric Acid (HNO ₃) added to sample to reach pH <2
NUTRIENTS	Nutrients	Plastic Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	25% Sulfuric Acid (H ₂ SO ₄) added to sample to reach pH < 2.
OILGREASE	Oil and Grease	Glass Bottle	Clear	1.00	l	Wet Ice (4 deg C)	Sulfuric Acid (H ₂ SO ₄) added to sample to reach pH < 2; 2 1L containers needed.
RESIDUE	Residue: TSS, TDS, TS	Plastic Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	
SULFATE	Sulfate	Plastic Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	
TURBIDITY	Turbidity Lab	Plastic Bottle	Translucnt	200.00	ml	Wet Ice (4 deg C)	
UNKNOWN	Unknown Sampling Container						

Sample Preservation, Transport and Storage Profiles

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21NDHDWQ

North Dakota Dept. of Health

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
SOP BUGS	Standard Operating Procedure	Plastic Bottle	Translucnt			None	
SOP METALS	Standard Operating Procedures	Plastic Bottle	Translucnt	200.00	ml	Wet Ice (4 deg C)	2 ml conc. HNO3 Store at 4 Deg C
SOP NUTS	Standard Operating Procedure	Plastic Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	2 ml 20% H2SO4 Store at 4 Deg C

Sample Preservation, Transport and Storage Profiles

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21NEB001

Nebraska Dept. of Environmental Quality

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
FECAL	FECAL SAMPLE PROCEDURE	Plastic Bottle	Clear	1.00	l	Wet Ice (4 deg C)	COLLECTION PROCEDURES FOR FECAL SAMPLES. SEE SOP
LAKE	LAKE WQ SAMPLING	Cubitainer	Clear	1.00	l	Wet Ice (4 deg C)	SEE SOP
STREAMAWQ	AMBIENT STREAM WQ SAMPLES	Cubitainer	Clear	1.00	l	Wet Ice (4 deg C)	SEE SOP
WET	WETLAND WQ SAMPLING	Cubitainer	Clear	1.00	l	Wet Ice (4 deg C)	SEE SOP

Sample Preservation, Transport and Storage Profiles

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21NJDEP1

NJ Department of Environmental Protection

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
1000GBT	1000 ml Glass Blue Tag	Glass Bottle	Clear	1000.00	ml		
500ARP	500 ML ACID RINSED PLASTIC	Plastic Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	ACID RINSED IN LAB. CONCENTRATED HNO3 pH < 2
500GAMB	500 ML GLASS AMBER	Glass Bottle	Amber	500.00	ml	Wet Ice (4 deg C)	CONCENTRATED H2SO4 pH < 2
500PYT	500 ml Poly Yellow Tag	Polyethylene Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	
AMB1000	1000 ML AMBER	Glass Bottle	Amber	1000.00	ml	Wet Ice (4 deg C)	
BACT	Freshwater bacteria sampling	Glass Bottle	Clear	250.00	ml	Wet Ice (4 deg C)	
BACT120	BACTERIA 120ML	Glass Bottle	Clear	120.00	ml	Wet Ice (4 deg C)	Before sample bottles are sent into the field, 0.1 ml of 10% thiosulfate and 0.3 ml 15% EDTA are added each for each 125 ml of sample to be collected. Bottles, therefore, should not be rinsed prior to sampling.
BACT250G	Glass 250 ml Bacteria	Glass Bottle	Clear	250.00	ml	Wet Ice (4 deg C)	Before sample bottles are sent into the field, 0.1 ml of 10% thiosulfate and 0.3 ml 15% EDTA are added each for each 125 ml of sample to be collected. Bottles, therefore, should not be rinsed prior to sampling.
BACT250P	Bacteria 250 ml Plastic	Plastic Bottle	Opaque	250.00	ml	Wet Ice (4 deg C)	Before sample bottles are sent into the field, 0.1 ml of 10% thiosulfate and 0.3 ml 15% EDTA are added each for each 125 ml of sample to be collected. Bottles, therefore, should not be rinsed prior to sampling.
BACTE1	Microbiological water sample	Polypropylene Bottle	Clear	250.00	ml	Wet Ice (4 deg C)	

Sample Preservation, Transport and Storage Profiles

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21NJDEP1

NJ Department of Environmental Protection

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
BACTE2	Marine Water Bacteriological	Polypropylene Bottle	Translucnt	250.00	ml	Wet Ice (4 deg C)	0.1 mL of 10% of Thiosulfate, added prior to sample collection.
BGC	Wide Mouth Baked Glass Bottle	Glass Bottle	Clear	500.00	ml	Wet Ice (4 deg C)	
BOD51LP	Plastic BOD5 1 Liter	Plastic Bottle	Translucnt	1000.00	ml	Wet Ice (4 deg C)	
BUGS	Benthic Macroinvertebrates	Plastic Bottle	Clear			None	10% formalin
CHEM500G	Glass 500 ml General Chem	Glass Bottle	Clear	500.00	ml	Wet Ice (4 deg C)	
CHL-A	500 ml Amber Aceton Rinsed	Glass Bottle	Amber	500.00	ml	Wet Ice (4 deg C)	
CHLA500G	Acetone Rinsed Chlorophyll a	Glass Bottle	Amber	500.00	ml	Wet Ice (4 deg C)	Acetone rinsed bottle.
CU	Wide Mouth Polypropylene	Polypropylene Bottle	Translucnt	500.00	ml		
DOC	DOC	Glass Bottle	Amber	125.00	ml	Wet Ice (4 deg C)	acidify to pH < 2 with 4.5N sulfuric acid
EWQ-GCHEM	EWQ General Chemistry	HDPE Bottle	Translucnt	1.00	l	Wet Ice (4 deg C)	These samples require no chemical preservation, but are cooled to 4 degrees Celsius in an ice chest as soon as possible after collection.
EWQ-NUTRI	EWQ Preserved Nutrients	HDPE Bottle	Opaque	500.00	ml	Wet Ice (4 deg C)	Samples are preserved with concentrated sulfuric acid (H2SO4) to a pH of 2 and cooled to 4 degrees celsius in an ice chest. Samplers avoid adding excessive amounts of acid so as not to cause analytical interferences.
FA	FA	Polyethylene Bottle	Translucnt	250.00	ml		Acidify sample with HNO3 to pH < 2
FCA	FCA	Polyethylene Bottle	Amber	125.00	ml	Wet Ice (4 deg C)	Acidify sample with 1 ml of 4.5 N H2SO4
FU	FU	Polyethylene Bottle	Translucnt	250.00	ml		

Sample Preservation, Transport and Storage Profiles

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21NJDEP1

NJ Department of Environmental Protection

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
GCC	Baked glass bottle	Glass Bottle	Amber	1000.00	ml	Wet Ice (4 deg C)	
GCV	Baked w/ teflon septum cap	Glass Bottle	Clear	40.00	ml	Wet Ice (4 deg C)	Acidify with 6N HCl to pH <2
GEN1000	1000 ML PLAS T	Plastic Bottle	Translucnt	1000.00	ml	Wet Ice (4 deg C)	
GENERAL	500 ml Plastic	Plastic Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	
HARD250P	Acetone Rinsed Hardness	Plastic Bottle	Translucnt	250.00	ml	Wet Ice (4 deg C)	HNO3 to pH < 2. Acetone Rinsed bottle
HARDNESS	250 ml Acid Washed Plastic	Plastic Bottle	Translucnt	250.00	ml	Wet Ice (4 deg C)	Nitric acid (concentrated) on site, acid rinsed bottles
METALS	1-Liter Acid Washed Plastic	Plastic Bottle	Translucnt	1.00	l	Wet Ice (4 deg C)	Nitric acid (concentrated) in lab
METL250G	Metals 250 Glass	Glass Bottle	Clear	250.00	ml		conc HNO3 pH<2
NUTR500G	Preserved Nutrients Glass 500	Glass Bottle	Clear	500.00	ml		conc. H2SO4 pH <2
NUTRIENTS	500 ml Plastic Preserved	Plastic Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	Sulfuric Acid (H2SO4) to pH < 2,
OT	250 ml Poly Orange Tag	Polyethylene Bottle	Translucnt	250.00	ml	Wet Ice (4 deg C)	acidify to pH < 2 with 4.5 N H2SO4
P250M	Plastic 250 ml Metals	Plastic Bottle	Translucnt	250.00	ml		conc. HNO3 to pH < 2
PEST	1000 ml Amber Acetone Rinsed	Glass Bottle	Amber	1000.00	ml	Wet Ice (4 deg C)	
RA	RA	Polyethylene Bottle	Translucnt	250.00	ml		Acidify sample with HN03 to pH <2
RAM	Nitric Acid Rinsed Glass	Glass Bottle	Clear	250.00	ml		
RU	RU	Polyethylene Bottle		250.00	ml		
SED	Smooth Neck Sediment Bottle	Glass Bottle	Clear	500.00	ml		
SEDS	Sediment Containers	Glass Bottle	Clear	4.00	oz		
TOC 250G	Glass 250 ml TOC	Glass Bottle	Clear	250.00	ml		conc. H2SO4 to pH < 2.

Sample Preservation, Transport and Storage Profiles

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21NJDEP1

NJ Department of Environmental Protection

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
TPCN	TPCN	Plastic Bag	Clear			Wet Ice (4 deg C)	
UVA	Amber Glass Bottle	Glass Bottle	Amber	125.00	ml	Wet Ice (4 deg C)	
WCA	WCA	Polyethylene Bottle	Translucnt	125.00	ml	Wet Ice (4 deg C)	acidify with 1 ml of 4.5 N H2SO4.
YT2	250 ml Poly Yellow Tag	Polyethylene Bottle	Translucnt	250.00	ml	Wet Ice (4 deg C)	

Sample Preservation, Transport and Storage Profiles

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21OHDGW

Ohio EPA Division of Drinking and Ground Waters

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
SPTS-001	Metals, ICP and AA, Ambient	Cubitainer	Opaque	1.00	qt	Wet Ice (4 deg C)	Preserved with one ampule (5mL) HNO ₃ (nitric acid, to produce pH ≤ 2.0). Used for all metals. Samples are stored at 4 deg. C until analyzed.
SPTS-002	Nutrient and Demand, Ambient	Cubitainer	Opaque	1.00	qt	Wet Ice (4 deg C)	Preserved with one ampule (2 mL) H ₂ SO ₄ (sulfuric acid). Used for TOC, COD, Nitrate-Nitrate, Ammonia-N, TKN, and Total P. Samples are stored at 4 deg. C until analyzed.
SPTS-003	Unpreserved Ambient	Cubitainer	Opaque	1.00	gal	Wet Ice (4 deg C)	Unpreserved for Alkalinity, Cl, F, TDS, and SO ₄ . Samples are stored at 4 deg. C until analyzed.
SPTS-004	VOC's, Ambient	Glass Bottle	Clear	40.00	ml	Wet Ice (4 deg C)	Two 40 mL vials, unpreserved. Samples are stored at 4 deg. C until analyzed.
SPTS-005	BNA's and Pesticides, Ambient	Glass Bottle	Amber	1000.00	ml	Wet Ice (4 deg C)	2 Amber glass bottles, non-preserved for BNA's and pesticides. Samples are stored at 4 deg. C until analyzed.
SPTS-006	NAOH Preserved, Ambient	Cubitainer	Opaque	1.00	qt	Wet Ice (4 deg C)	Samples are preserved in the field by adding sodium hydroxide in pellet form; Four (4) pellets per liter of sample to achieve a pH greater than 12 S.U. Samples are stored at 4 deg. C until analyzed.

Sample Preservation, Transport and Storage Profiles

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21PA

Pennsylvania Department of Environmental Protection

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
CONT 1	500 ml plastic HPDE	HDPE Bottle	Opaque	500.00	ml		
CONT 2	Ziplock Bags 9"X13"	Plastic Bag	Clear	1.00	gal		
CONT 3	1000 ml wide mouth Nalgene	Polypropylene Bottle		1000.00	ml		
CONT 4	500 ml precleaned plastic	Plastic Bottle	Opaque	500.00	ml		
CONT 5	125 ml precleaned plastic	Plastic Bottle	Opaque	125.00	ml		
CONT 6	500 ml (white can sp label)	Glass Bottle	Clear	500.00	ml		
CONT 7	500ml (black cap & wide mouth)	Glass Bottle	Clear	500.00	ml		
CONT 8	1 L Amber glass bottle	Glass Bottle	Amber	1.00	l		
CONT 9	125 ml (sterilized, blue cap)	Plastic Bottle	Opaque	125.00	ml		
FISH 1	Restaurant grade aluminum foil	Aluminum Foil Wrap					

Sample Preservation, Transport and Storage Profiles

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21SC60WQ

SC Dept. of Health & Environmental Control

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
1L	1 Liter bottle	Plastic Bottle					

Sample Preservation, Transport and Storage Profiles

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21SCESOP

SC Dept. of Health & Environmental Control

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
SWCS	Surface Water Composite Sample	Carboy Container	Opaque			None	Preservation: Nitric Acid
SWGS	Surface Water Grab Sample	Nalgene Bottle	Opaque			None	Preservation: Nitric Acid

Sample Preservation, Transport and Storage Profiles

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21SCGW

SC Dept. of Health & Environmental Control

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
AMBMETALS	Ambient Metals Sample	Plastic Bottle	Opaque	250.00	ml	Wet Ice (4 deg C)	

Sample Preservation, Transport and Storage Profiles

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21SCSANT

Santee Cooper - South Carolina Public Service Authority

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
BACTERIA	Bacteria - Fecal Coliform	Plastic Bottle	Opaque	250.00	ml	Wet Ice (4 deg C)	Disposable cup - no preservative required
BOD	BOD	Nalgene Bottle	Opaque	4.00	l	Wet Ice (4 deg C)	No preservation - ice only
CHLOROPH	Chlorophyll a	HDPE Bottle	Amber	250.00	ml	Wet Ice (4 deg C)	No preservation required. Immediately placed on ice after collection.
METAL	Metals	Nalgene Bottle	Opaque	250.00	ml	Wet Ice (4 deg C)	1:1 Nitric acid - 2 ml
NUTRIENT	Nutrients	Nalgene Bottle	Opaque	250.00	ml	Wet Ice (4 deg C)	As of 5/2001, nutrient samples are run on ion chromatograph and therefore non-preserved. Holding time for all samples is 48 hrs.

Sample Preservation, Transport and Storage Profiles

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21SDAK01

SD Dept of Environmental & Natural Resources

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
FISH 001	Fish Flesh Analysis	Plastic Bag	Clear	1.00	gal	Wet Ice (4 deg C)	<p>Fish fillets are collected and put in 1 gallon plastic bags. The samples are then placed in a large cooler and packed with ice.</p> <p>The cooler is then sent by over night mail to the State Health Laboratory.</p>
WQM001	Routine water samples	Polypropylene Bottle	Opaque	1.00	l	Wet Ice (4 deg C)	<p>For nutrient samples, 2 ml of sulfuric acid is added to sample.</p> <p>100 mL clear plastic bottles with sodium thiosulfate are used for fecal coliforms.</p> <p>100 mL clear plastic bottles with 0.5 mL of sulfuric acid are used for dissolved phosphorous samples</p>

Sample Preservation, Transport and Storage Profiles

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21WIS

Wisconsin Dept. of Natural Resources

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
TRP-001	Iced					Wet Ice (4 deg C)	
TRP-002	Preserved						

Sample Preservation, Transport and Storage Profiles

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22LAGWTR

Louisiana Dept of Environmental Quality

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
BMP-A	Water Quality	Cubitainer	Translucnt	1.00	l	Wet Ice (4 deg C)	
BMP-B	Total Metals	Cubitainer	Translucnt	1.00	l	Wet Ice (4 deg C)	Nitric Acid, pH < 2
BMP-C	Nutrients	Cubitainer	Translucnt	1.00	l	Wet Ice (4 deg C)	Sulfuric Acid, pH < 2
BMP-D	VOC's	Glass Vial	Clear	40.00	ml	Wet Ice (4 deg C)	Two 40 ml glass vials are collected for a total of 80 ml.
BMP-E	SVOC/PEST/PCB	Glass Bottle	Amber	1.00	gal	Wet Ice (4 deg C)	

Sample Preservation, Transport and Storage Profiles

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31DELRBC

Delaware River Basin Commission

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
SAMPLE	Sample storage					Wet Ice (4 deg C)	Samples are stored in coolers filled with wet ice.

Sample Preservation, Transport and Storage Profiles

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31DRBCSP

Delaware River Basin Commission

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
500ICE	500mL bottle	Plastic Bottle	Clear	500.00	ml	Wet Ice (4 deg C)	Sulfuric or Nitric acid preserved to <2pH
ACID120	120mL bottle with acid	Plastic Bottle	Clear	120.00	ml	Wet Ice (4 deg C)	Nitric acid preserved
DARK	Dark bottle for Chlorophyll A	Glass Bottle	Amber	1.00	l	Wet Ice (4 deg C)	unpreserved
ICED120	120mL bottles- bacteria	Plastic Bottle	Clear	120.00	ml	Wet Ice (4 deg C)	Sodium Thiosulfate powder
ICED1L	1 Liter Iced bottle	Plastic Bottle	Clear	1.00	l	Wet Ice (4 deg C)	unpreserved
ICEDGLASS	UPDE Turbidity	Glass Bottle	Amber	1.00	l	Wet Ice (4 deg C)	Sample collected and stored on ice/refridgerated until analyzed
UPDEFECAL	UPDE Fecal Coliform	Plastic Bag	Clear			Wet Ice (4 deg C)	Sample placed and sealed in Whirlpack bag following collection. Sample Iced or refrigerated prior to analysis

Sample Preservation, Transport and Storage Profiles

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31ISC2RS

Interstate Sanitation Commission

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
ISC-SP-1	Sample pres. for Fecal Colif.	Plastic Bottle	Opaque	125.00	ml		Refer to the ISC SOP Manual.
ISC-SP-2	Sample pres. for Chlorophyll a	Plastic Bottle	Opaque	1000.00	ml		Please refer to the ISC SOP Manual.
ISC-SP-3	Sample pres. for phytoplankton	Plastic Bottle	Opaque	1000.00	ml		Please refer to the ISC SOP Manual.

Sample Preservation, Transport and Storage Profiles

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42SRBCWQ

Susquehanna River Basin Commission

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
STS-000	Water, General inorganic	Nalgene Bottle	Opaque	500.00	ml	Refrigerated (4 deg C)	
STS-001	Water/Nutrients	Nalgene Bottle	Opaque	250.00	ml	Refrigerated (4 deg C)	H2SO4 to pH < 2.0
STS-002	Water/Metals	Nalgene Bottle	Opaque	250.00	ml	Refrigerated (4 deg C)	HNO3 to pH < 2.0

Sample Preservation, Transport and Storage Profiles

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ARDEQH2O

Arkansas Dept. of Environmental Quality

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
ADEQFC-01	Fecal coliform samples	Polypropylene Bottle	Translucnt	120.00	ml	Refrigerated (4 deg C)	
ADEQFS-01	Fish Sample for Metals	Plastic Bag				Frozen (0 deg C)	Samples are stored in the freezer until time for preparation.
ADEQFS-02	Fish Sample for Pesticides/PCB	Aluminum Foil Wrap				Frozen (0 deg C)	Samples (whole or fillet) should be wrapped in foil and then bagged. Samples will remain in freezer until processing.
ADEQO&G-01	Oil and Grease Sample	Glass Bottle	Amber	1.00	l	Refrigerated (4 deg C)	
ADEQPS-01	PCB/Pesticide Water Sample	Glass Bottle	Amber	1.00	l	Refrigerated (4 deg C)	
ADEQRWS-01	Routine Water Sample	Plastic Bottle	Translucnt	.50	gal	Wet Ice (4 deg C)	Bottle is transported to the laboratory on ice.
ADEQRWS-02	Routine Sample for Metals	HDPE Bottle	Translucnt	125.00	ml	None	The bottles are pretreated with 35% nitric acid. Bottles are bagged for extra protection from dust and debris. They should be stored in the plastic sample container provided by the laboratory before and after the sample has been collected.
ADEQVOL-01	Water Sample for Volatiles	Glass Vial	Amber	40.00	ml	Refrigerated (4 deg C)	Samples are stored in ice chest for transport to the lab. The samples are refrigerated upon arrival at the laboratory.

Sample Preservation, Transport and Storage Profiles

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BEAR_CRK

Bear Creek Reservoir

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
ICE	Transport preserved on ice						

Sample Preservation, Transport and Storage Profiles

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CAPECRD

City of Cape Coral (Florida)

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
STSBRG1G	Brown glass 1 gal. bottle	Glass Bottle	Amber	3.80	l	Wet Ice (4 deg C)	Bottles have polyethylene caps. Samples stored on ice and taken immediately to the laboratory for analyses.
STSBRG1L	Brown glass bottle	Glass Bottle	Amber	1.00	l	Wet Ice (4 deg C)	Bottles have polyethylene cap liners. Samples stored on ice and taken immediately to the laboratory for analyses.
STSBRP1L	Brown plastic HDPE bottle	HDPE Bottle	Opaque	1.00	l	Wet Ice (4 deg C)	Samples stored on ice and taken immediately to the laboratory for analyses.
STSCLP1L	Clear plastic HDPE bottle	HDPE Bottle	Clear	1.00	l	Wet Ice (4 deg C)	Samples stored on ice and taken immediately to the laboratory for analyses.
STSWPAK	Whirl Pak sampling bag	Plastic Bag	Clear	100.00	ml	Wet Ice (4 deg C)	Samples stored on ice and taken to the lab for analyses.

Sample Preservation, Transport and Storage Profiles

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CCAMP

Central Coast Ambient Monitoring Program

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
CCAMP_ST01	Bacteria samples	Nalgene Bottle	Clear	100.00	ml	Wet Ice (4 deg C)	Sodium Thiosulphate
CCAMP_ST02	Nutrient samples	Polypropylene Bottle	Translucnt	.50	l	Wet Ice (4 deg C)	48 hour holding time, on ice or refrigerated at 4C
CCAMP_ST03	Suspended Sediment samples	Polypropylene Bottle	Translucnt	1.00	l	Wet Ice (4 deg C)	
CCAMP_ST04	Chlorophyll a samples	Aluminum Foil Wrap	Opaque	.50	l	Wet Ice (4 deg C)	

Sample Preservation, Transport and Storage Profiles

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CHATFLD

Chatfield Reservoir

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
ICE	ICE Storage and Transport						
STS-001	Metals/water						
STS-002	Macroinvertebrates						
STS-005	Inorganic, general, water	Glass Bottle				Refrigerated (4 deg C)	
STS-006	Bacteria/water						
STS-008	Nutrients/water						
STS-010	Organics general/water						

Sample Preservation, Transport and Storage Profiles

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CT_DEP01

Connecticut Dept. of Environmental Protection

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
CTBCH125	Beach sample transport	Nalgene Bottle	Clear	125.00	ml	Wet Ice (4 deg C)	No preservation is required other than placing the sample immediately on ice.

Sample Preservation, Transport and Storage Profiles

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DEMOTEST

The Commission for a Good Clean Chesapeake Bay

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
STS-001	Metals/water	HDPE Bottle	Clear	1.00	l	Refrigerated (4 deg C)	Adjust pH<2.0 with HNO ₃
STS-002	Macroinvertebrates	Nalgene Bottle	Clear	1.00	l	None	Buffered Formalin containing Rose Bengal vital stain (final concentration of 10% formalin), transferred to 70% ethanol within 2 weeks.
STS-003	Fish Tissue for Histopathology	Polypropylene Container	Clear	1.00	gal	None	The abdominal and thoracic cavity are opened, fish is labed to station and placed in a perforated plastic bag such that the fish will be totally immersed in Dietrich's fixative. Multiple samples may be held in a single container, avoid overcrowding.
STS-004	Pesticides/water	HDPE Bottle	Clear	1.00	l	Refrigerated (4 deg C)	Cool to 4 deg C, adjust pH 5 - 9
STS-005	Inorganic, general, water	HDPE Bottle	Clear	1.00	l	Refrigerated (4 deg C)	No Chemical Preservation. Samples are held on wet ice in the field. Samples are frozen unless it is scheduled for extraction within 7 days; in which case, the samples may kept at 4 C to await processing.
STS-006	Bacteria/water	HDPE Bottle	Clear	1.00	l	Refrigerated (4 deg C)	Cool to 4 deg C, 0.008% Na ₂ S ₂ O ₃
STS-007	Metals Low Level/water	Teflon Bottle	Clear	1.00	l	Refrigerated (4 deg C)	Adjust pH<2.0 with HNO ₃
STS-008	Nutrients/water	HDPE Bottle	Clear	1.00	l	Dry Ice (-78.5 deg C)	No chemical preservative. Nutrient samples remain frozen until time of analysis.
STS-009	Fish	Glass Bottle	Amber	1.00	gal	None	70% formalin
STS-010	Organics general/water	HDPE Bottle	Amber	1.00	l	Wet Ice (4 deg C)	No Chemical Preservation. Samples are held on wet ice in the field. Samples are frozen unless it is scheduled for extraction within 7 days; in which case, the samples may kept at 4 C to await processing.

Sample Preservation, Transport and Storage Profiles

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DEMOTEST

The Commission for a Good Clean Chesapeake Bay

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
STS-011	Radiological Tests	Glass Bottle	Clear	1.00	l	None	HNO3 adjust to pH<2.0
STS-012	Sediment, Silt/Clay	Teflon Bottle	Translucent	250.00	ml	Wet Ice (4 deg C)	No chemical preservation. Samples are held on wet ice in the field. Samples are held at 4 C refrigerated (sample is not to be frozen) to await further laboratory processing.
STS-013	Water, Total Suspended Solids	Polyethylene Bottle	Clear	1.00	l	Wet Ice (4 deg C)	No chemical preservation. Samples are held in a 1 liter polypropylene bottle on wet ice in the field. Samples are stored at 4 deg C to await lab determinations.
STS-014	Fish Tissue for Chemistry	Aluminum Foil Wrap	Opaque			Wet Ice (4 deg C)	No chemical preservation. Fish chemistry samples are held on wet ice in the field until they are transferred to shore where are frozen to await laboratory analysis.
STS-015	Sediment, Inorganics	Nalgene Bottle	Clear	500.00	ml	Wet Ice (4 deg C)	No chemical preservation. Samples are held on wet ice in the field. Samples are frozen unless they are scheduled for digestion within 7 days; in which case, samples may be held at 4 C to await processing.
STS-016	Sediment, Toxicity Test	Nalgene Bottle	Clear	5.00	l	Wet Ice (4 deg C)	No chemical preservation. Samples are held on wet ice in the field. Samples are held at 4 C (samples never to be frozen) to await further processing and initiation of testing within 30 days of collection.

Sample Preservation, Transport and Storage Profiles

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EMAP-CS

Environmental Monitoring and Assessment Program

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
CONT-000	Not applicable						
CONT-001	Water-Chla, nutrient, TSS-West	Polystyrene Petri Dish	Opaque			Frozen (-20 deg C)	No chemical preservation. Chlorophyll: filters placed in aluminum foil inside a Petri dish or Whirl-Pac and kept frozen until analysis. Nutrients: narrow mouth 60 ml Nalgene HDPE bottles with leak proof screw cap frozen upright and kept frozen until analysis. Total suspended solids: samples stored in 1 L polypropylene bottles on wet ice in the field and stored at 4 deg C to await laboratory processing within 7 days.
CONT-003	Water, TSS-general	Polypropylene Bottle	Clear	1.00	l	Wet Ice (4 deg C)	No chemical preservation. Samples are held in a 1-L polypropylene bottles on wet ice in the field and stored at 4 C to await laboratory processing within 7 days.
CONT-010	Biota, Histopathology Fish	Polyethylene Container	Clear	1.00	gal	None	The abdominal and thoracic cavity are opened, fish is labed to station and placed in a perforated plastic bag such that the fish will be totally immersed in Dietrich's fixative. Multiple samples may be held in a single container, avoid overcrowding.
CONT-011	Biota, Chemistry Fish	Aluminum Foil Wrap	Opaque			Wet Ice (4 deg C)	No chemical preservation. Fish chemistry samples are held on wet ice in the field until they are transferred to shore where are frozen to await laboratory analysis.
CONT-012	Biota, Macrobenthic-West	Nalgene Bottle	Clear	1000.00	ml	None	Samples were stored in 500 or 1000 cc wide-mouthed Nalgene bottles and were preserved with buffered formalin (final concentration of 10% formalin with Rose Bengal added). Samples were transferred

Sample Preservation, Transport and Storage Profiles

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EMAP-CS

Environmental Monitoring and Assessment Program

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
							to 70% ethanol within 2 weeks of collection for indefinite storage until laboratory identification.
CONT-013	Biota, Macrobenthic 0.5mm-VP	Nalgene Bottle	Clear	1000.00	ml	None	100% buffered, stained stock formalin solution w/ Rose Bengal and borax (final conc. in sample jars of 10% formalin). Optimum laboratory storage from 5-30 deg C to avoid freezing, excessive evaporation; no exposure to direct sunlight; check for leakage.
CONT-015	Biota, Chemistry Fish-NCA	Aluminum Foil Wrap	Opaque			Wet Ice (4 deg C)	Fish were measured on the boat; wrapped in aluminum foil; combined in Ziploc bags and placed immediately on either wet or dry ice in a cooler. No chemical preservation. Upon transfer to shore storage, samples were kept frozen (-20 C) and could be held for 1 year.
CONT-016	Biota, Macrobenthic 0.5mm-NCA	Nalgene Bottle	Opaque	1000.00	ml	None	100 ml of 100% buffered stock formalin solution and borax (final conc. in sample jars of 10% formalin). Optimum laboratory storage from 5-30 deg C to avoid freezing, excessive evaporation; no exposure to direct sunlight; check for leakage. Transfer to 70% ethanol for indefinite storage.
CONT-020	Sediment, TOC/Siltclay	Glass Bottle	Clear	100.00	ml	Wet Ice (4 deg C)	No chemical preservation. For total organic carbon (TOC), samples are held in glass bottles on wet ice aboard and upon transfer to shore storage, samples are frozen (up to one year) to await laboratory analysis. For silt/clay, samples are held in plastic (HDPE) bottles on wet ice aboard and upon transfer to the shore storage,

Sample Preservation, Transport and Storage Profiles

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EMAP-CS Environmental Monitoring and Assessment Program

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
							samples are held for up to one year at 4 C (sample is not to be frozen) to await laboratory processing.
CONT-021	Sediment, Silt/clay	Nalgene Vial	Clear	125.00	ml	Wet Ice (4 deg C)	No chemical preservation. Sample are held on wet ice aboard and, upon transfer to the shore storage, samples are held at 4 C (sample is not to be frozen) to await further laboratory processing.
CONT-022	Sediment, Inorganics-West	Nalgene Vial	Clear	125.00	ml	Wet Ice (4 deg C)	No chemical preservation. Samples are held on wet ice while aboard and, upon transfer to shore storage, can be frozen for up to 1 year. If they are scheduled for digestion within 7 days, samples may be held at 4 C to await processing.
CONT-023	Sediment, Organics-West	Glass Bottle	Clear	1.00	pt	Wet Ice (4 deg C)	No Chemical Preservation. Samples were held on wet ice in the field and, upon transfer to shore storage, samples can be frozen (-20 C) for up to 1 year. If scheduled for extraction within 7 days, samples may be kept at 4 C to await processing.
CONT-024	Sediment, Toxicity Testing	Nalgene Bottle	Clear	5000.00	ml	Wet Ice (4 deg C)	No chemical preservation. Samples are held on wet ice aboard and, upon transfer to shore storage, samples are held at 4 C (samples never to be frozen) to await further processing and initiation of testing within 30 days of collection.
CONT-025	Sediment, Organics-VP	Glass Bottle	Clear	500.00	ml	Wet Ice (4 deg C)	No chemical preservation. Samples (250 ml in 500 ml bottle) held on wet ice (4 deg C) on boat, and transferred to shore storage. If extractions are not to be performed w/in 14

Sample Preservation, Transport and Storage Profiles

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EMAP-CS Environmental Monitoring and Assessment Program

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
							days, samples are frozen (-18 to -20 C) and analyzed within 1 year.
CONT-026	Sediment, Inorganics-VP	HDPE Bottle	Opaque	250.00	ml	Wet Ice (4 deg C)	No chemical preservation. Samples held on wet ice on boat, and upon transfer to shore storage, samples are frozen (-20 C). If scheduled for digestion within 7 days, samples are held at 4 C. Max sample holding is 6-12 mo; 28 days for Hg.
CONT-027	Sediment, AVS-VP	Polypropylene Bottle	Clear	125.00	ml	Wet Ice (4 deg C)	No chemical preservation. Samples held on wet ice on boat, and upon transfer to shore storage, samples are maintained on wet ice before analysis for a maximum of 14 days.
CONT-028	TOC/Mois-NCA	Glass Bottle	Clear	250.00	ml	Frozen (-20 deg C)	No chemical preservation. Samples (100 cc) held on wet ice on boat, and upon transfer to shore storage, samples are frozen (-20 C) and can be held up to 1 year.
CONT-029	Sediment, Toxicity-NCA	Plastic Bottle	Opaque	1.00	gal	Wet Ice (4 deg C)	No chemical preservation. Samples (3 l mininum) held on wet ice aboard and, upon transfer to shore storage, samples are held at 4 C (samples never to be frozen). Further processing and initiation of testing must occur within 30 days of collection.
CONT-030	Sediment, Silt/clay+sand-NCA	HDPE Bottle	Opaque	125.00	ml	Refrigerated (4 deg C)	No chemical preservation. Samples (100 cc) held on wet ice on boat. Grain size and moisture samples can be held for up to a year in a refrigerator at 4 C.
CONT-031	Sediment, Inorganics-NCA	HDPE Bottle	Opaque	250.00	ml	Wet Ice (4 deg C)	No chemical preservation. Samples (100 cc) held on wet ice on boat, and upon transfer to shore storage, samples are

Sample Preservation, Transport and Storage Profiles

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EMAP-CS Environmental Monitoring and Assessment Program

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
							frozen (-20 C). If scheduled for digestion within 7 days, samples are held at 4 C. Max sample holding is 12 mo; 28 days for Hg.
CONT-032	Sediment, Organics-NCA	Glass Bottle	Clear	500.00	ml	Wet Ice (4 deg C)	No chemical preservation. Samples (250 ml in 500 ml bottle) held on wet ice (4 deg C) on boat, and transferred to shore storage. If extractions are not to be performed w/in 14 days, samples are frozen (-18 to -20 C) and analyzed within 1 year.
CONT-033	Water-Chla, nutrient, TSS:NCA	Polystyrene Petri Dish	Clear			Frozen (-50 deg C)	25 mm GF/F is stored in a foil wrapped plastic petri dish. Samples are stored on dry ice on the boat and transferred to a freezer (-50 deg C) for up to 6 months. No chemical preservation. Nutrients: narrow mouth 60 ml Nalgene HDPE bottles with leak proof screw cap frozen upright and kept frozen (-50 deg C) for up to 6 months. Total suspended solids: samples stored in 1 L Nalgene bottles on wet ice in the field and stored in a refrigerator (4 deg C) for up to 3 months.
CONT-034	Water, Nutrients-general	Nalgene Bottle	Opaque	60.00	ml	Frozen (-50 deg C)	Samples are stored on dry ice on the boat and transferred to a freezer (-50 deg C) for up to 6 months.
CONT-035	Total Suspended Solids-general	Nalgene Bottle	Opaque	1.00	l	Refrigerated (4 deg C)	No chemical preservation. Samples are held in a 1-L Nalgene bottle on wet ice (4 deg C) in the field and stored in a refrigerator at 4 C for up to 3 months.

Sample Preservation, Transport and Storage Profiles

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HI301H

City and county of Honolulu

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
BIO RW	Bio RW bottle	HDPE Bottle	Opaque	250.00	ml	Wet Ice (4 deg C)	
CHEM RW	Chem RW bottle	HDPE Bottle	Opaque	2.00	l	Wet Ice (4 deg C)	
MICRO RW	Micro RW bottle	HDPE Bottle	Opaque	500.00	ml	Wet Ice (4 deg C)	
MICROEFF1	Micro Eff Bottle 1	HDPE Bottle	Opaque	125.00	ml	Wet Ice (4 deg C)	

Sample Preservation, Transport and Storage Profiles

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KWMNDATA

Keystone Watershed Monitoring Network (Pennsylvania)

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
BOTTLE	Plastic Bottle	Plastic Bottle					

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LAKELAND

City of Lakeland

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
BACT	bacteria/water	Plastic Bag	Clear	4.00	oz	Wet Ice (4 deg C)	Nasco whirl pak bag used to collect bacteria samples is placed on ice until reach lab, then refrigerated.
MI	macroinvertebrate/water	Plastic Bottle	Clear	1.00	gal	Wet Ice (4 deg C)	on ice in field until laboratory, then immediate picking and sorting occurs with 70% ethanol for preservative.
PHYTO	phytoplankton/water	Nalgene Bottle	Black	125.00	ml	Wet Ice (4 deg C)	.6 ml gluteraldehyde upon reaching lab
STS6	chlorophyl/water	Nalgene Bottle	Black	16.00	oz	Wet Ice (4 deg C)	Chlorophyl sample placed in iced cooler until reach lab.
WQ	water quality	Plastic Bottle	Clear	16.00	oz	Wet Ice (4 deg C)	

Sample Preservation, Transport and Storage Profiles

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MDEDAT04 MD Dept. Environment Ambient Water Quality Data

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
BACTSM	Bacteria Sampling	Glass Bottle		4.00	oz	Wet Ice (4 deg C)	<p>Sterile 4 oz. bottle containing 0.1 ml of a 10% sodium thiosulfate solution.</p> <p>Water Samples should be transported in coolers containing crushed ice filled no higher than the shoulders of the water containers in order to hold the temperature of the samples between 1.0°C to 10°C from the time of collection to the time of examination. Use of "Cool-Pack" alone without ice is not sufficient to maintain the required temperature.</p> <p>Maximum Holding Time 6 hrs.</p>
BODSMP	BOD Sampling	Plastic Bottle		1.00	qt	Wet Ice (4 deg C)	<p>Rinse a pre-labeled one quart plastic container and cap three times with the sample water. Fill the container to the top of the mouth. Place cap on container and promptly chill the container on ice until it can be transported to the laboratory.</p>
CHLORO	Chlorophyll Sampling	HDPE Bottle	Amber	16.00	oz	Wet Ice (4 deg C)	<p>Using forceps, fold the filter pad in quarters and place in a ziplock bag pre-labeled with the sample identification and survey date. Avoid excessive contact with the pad. Record the volume of water filtered through the pad on the sample bag.</p>
NUTLAB	Nutrient Laboratory	Plastic Bottle		.50	gal	Wet Ice (4 deg C)	<p>Rinse a pre-labeled, one-half gallon plastic container and cap three times with the sample water. Fill the container with sample water and replace cap. Place sample on ice until it can be transported to the laboratory.</p>

Sample Preservation, Transport and Storage Profiles

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MDEDAT09

Maryland Dept. of the Environment Risk Assessment Data

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
STS-003	Fish Tissue	Teflon Bottle	Clear				

Sample Preservation, Transport and Storage Profiles

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MNPCA1

Minnesota Pollution Control Agency

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
CEDAR1	Cedar River 1					Wet Ice (4 deg C)	Transportation to Lab in about 3 hours. The lab analyzes samples on the same day as collected.
HG-G1	Mercury, 500ml Glass Bottle	Glass Bottle	Clear	500.00	ml	None	
HG-TEF1	Mercury, 500ml Teflon Bottle	Teflon Bottle	Translucent	500.00	ml	Wet Ice (4 deg C)	Acid preservation: 50% HCl, 5 mL
ICE1	Ice 4.0 C					Wet Ice (4 deg C)	Water samples are chilled in laboratory provided containers, in a cooler, with wet ice to 4 degrees Celsius.
ICE_ACIDP1	Ice 4.0 C, Acid Preservative					Wet Ice (4 deg C)	Acid preservative added to water samples. Samples are chilled in laboratory provided containers, in a cooler, with wet ice to 4 degrees Celsius.
ICE_ACIDP2	Ice 4.0 C, H2SO4 to pH<2					Wet Ice (4 deg C)	Sulfuric acid preservative added to water samples to pH<2. Samples are chilled in laboratory provided containers, in a cooler, with wet ice to 4 degrees Celsius.
ICE_DIRECT	Ice 4.0 C, Directly To Lab					Wet Ice (4 deg C)	Water samples are chilled in laboratory provided containers, in a cooler, with wet ice to 4 degrees Celsius, and taken directly to the lab.
ICE_OVERNT	Ice 4.0 C, Shipped Overnight					Wet Ice (4 deg C)	Water samples are chilled in laboratory provided containers, in a cooler, with wet ice to 4 degrees Celsius, and shipped overnight.
LAKE1	Lake Program 1					Wet Ice (4 deg C)	5ml of 10% H2SO4 added ONLY to sample bottle for phosphorus, ammonia, nitrogen, NO2-NO3, COD and TOC analyses. When samples for chlorophyll analysis are filtered prior to delivery to the lab, sample filters are frozen in the dark.

Sample Preservation, Transport and Storage Profiles

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MNPCA1

Minnesota Pollution Control Agency

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
MILE1	Milestone 1					Wet Ice (4 deg C)	5ml of 10% H2SO4 added ONLY to sample bottle for phosphorus, ammonia, nitrogen, NO2-NO3, COD and TOC analyses. When samples for chlorophyll analysis are filtered prior to delivery to the lab, sample filters are frozen in the dark.
MTLS-HDPE1	Metals/As, 250ml HDPE Bottle	HDPE Bottle	Translucent	250.00	ml	None	
MTLS-TEF1	Metals/As, 250ml Teflon Bottle	Teflon Bottle	Translucent	250.00	ml	None	Acid preservation: 50% HNO3, 10 mL
NO_ICE	No ice					None	Water samples are placed in laboratory provided containers in a cooler.
OTDR1	Outdoor Corps 1					Wet Ice (4 deg C)	Water samples are chilled in a cooler, with wet ice to 4 degrees Celsius. No field preservation solutions are added to water samples. Water samples are delivered to lab the same day as collection.
STRT1	Straight River 1					None	Transportation to Lab in about 1.5 hours. If the lab does not analyze the same day, then the lab stores in refrigerator and preserves accordingly.

Sample Preservation, Transport and Storage Profiles

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MONT-DEQ

Montana Department of Environmental Quality

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
3TMDL-H2O	TMDL Suite, Water Chemistry	Plastic Bottle	Translucnt	2.50	l	Wet Ice (4 deg C)	TMDL water chemistries are collected in 3 containers; 1 L H2SO4 preserved - Nutrients, 1 L unpreserved - Solids, Common ions, 0.5 L HNO3 preserved - Metals. Chilled immediately and transported on ice.
BACT	Bacteriological, water	Polyethylene Bottle	Translucnt	.12	l	Wet Ice (4 deg C)	Sterile polyethylene bottle provided by lab (preserved w/ sodium thiosulfate). A small headspace is retained in sample. Samples are chilled, held on ice, (but never frozen) and transported immediately to lab.
BOD	Biochemical Oxygen Demand	Polyethylene Bottle	Translucnt	1.00	l	Wet Ice (4 deg C)	Sample volume 1 L minimum. Samples are held on ice, but never frozen, and transported (unpreserved) immediately to lab. Holding time 48 hours. See SOP manual for more details.
CN	Cyanide	Polyethylene Bottle	Translucnt	1.00	l	Wet Ice (4 deg C)	Ascorbic Acid Sodium Hydroxide pH>12. Hold time 14 days. See SOP manual for further footnotes.
FISH-MET	Fish - Metals & Inorganics	Plastic Bag				Frozen (0 deg C)	Place in Zip-loc bag
FISH-ORG	Fish Tissue - Organic Compound	Aluminum Foil Wrap				Frozen (0 deg C)	Wrap in aluminum foil - shiny side out. Chill immediately. Freeze ASAP. Hold and transport frozen.
GPT	General Preservation and Trans	Plastic Bottle				Refrigerated (4 deg C)	Metals w/ HNO3 to pH <2; Nutrients w/ H2SO4 to pH<2; Common Ions & Solids unpreserved. Shipped cold-pack. Standard EPA recommended hold times observed for each parameter: Metals - 6mo; Solids - 7 da; Ca, Mg, Na, K - 28 da; Nutrients, general - 28 da.

Sample Preservation, Transport and Storage Profiles

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MONT-DEQ

Montana Department of Environmental Quality

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
METS	Metals, Water	Polyethylene Bottle	Translucnt	.50	l	Wet Ice (4 deg C)	Minimum .5 L sample. 50% Nitric Acid, pH<2. Chill and transport on wet ice. Holding time 6 months. See SOP manual for further footnotes.
METS-D	Metals, Dissolved	Polyethylene Bottle	Translucnt	1.00	l	Wet Ice (4 deg C)	Filter on site, preserve w/ 50% Nitric Acid pH <2. Hold time 6 months. See SOP manual for further footnotes.
NUTS	Nutrients, Water	Polyethylene Bottle	Translucnt	1.00	l	Wet Ice (4 deg C)	Preserved with 50% Sulfuric Acid, pH <2; Chill and transport on wet ice; Hold time 28 days. See SOP manual for further footnotes.
O&G	Oil & Grease	Glass Bottle	Clear	1.00	l	Wet Ice (4 deg C)	Collected in a wide mouth clear glass container, pre-rinsed with solvent; Containers available through analytical lab. Preserved with 50% Sulfuric Acid to pH<2; Samples are chilled and transported on wet ice. Holding time 28 days.
PHENOL	Phenols	Glass Bottle	Amber	1.00	l	Wet Ice (4 deg C)	50% H2SO4 pH<2. Holding time 28 days.
SED1	Sediment/Sludge	Plastic Bottle	Translucnt	4.00	l	Wet Ice (4 deg C)	Sediment samples are sieved according to the MT DEQ SOP, chilled and held on wet ice, unpreserved, for transport.
SOLIDS	Solids, TSS & TDS	Polyethylene Bottle	Translucnt	1.00	l	Wet Ice (4 deg C)	Samples for solids are held on wet ice, unpreserved for transport, and analysed ASAP. Holding times vary by parameter.
SULFIDE	Sulfides	Polyethylene Bottle		.50	l	Wet Ice (4 deg C)	2 ml Zinc Acetate, conc NaOH to pH >9. Hold time 7 days. See SOP manual for further footnotes.
TURB	Turbidity	Polyethylene Bottle	Translucnt	.50	l	Wet Ice (4 deg C)	Samples are chilled and held (unpreserved) on ice for immediate transport to lab. Hold time 48 hours. See SOP manual for further

Sample Preservation, Transport and Storage Profiles

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MONT-DEQ

Montana Department of Environmental Quality

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
							footnotes.
VOC	Volatile Organic Compounds	Glass Vial w/ Septa	Clear	40.00	ml	Wet Ice (4 deg C)	Use 2-3, 40 ml vials. Add 4 drops 1+1 HCL, Holding time 14 days. Samples must be collected with zero headspace. The VOA vial is filled completely. Ascorbic acid is added for chlorinated samples.

Sample Preservation, Transport and Storage Profiles

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MT-DEQ

Montana DEQ

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
BACT	Bacteriological, water	Polyethylene Bottle	Translucnt	.12	I	Wet Ice (4 deg C)	Sterile polyethylene bottle provided by lab (preserved with sodium thiosulfate). A small headspace is retained in sample. Samples are chilled, held on ice, (but never frozen) and transported immediately to lab.
BOD	Biochemical Oxygen Demand	Polyethylene Bottle	Translucnt	1.00	I	Wet Ice (4 deg C)	Sample volume 1 L minimum. Samples are held on ice, but never frozen, and transported (unpreserved) immediately to lab. Holding time 48 hours. See SOP manual for more details.
CN	Cyanide	Polyethylene Bottle	Translucnt	1.00	I	Wet Ice (4 deg C)	Ascorbic Acid Sodium Hydroxide pH>12. Hold time 14 days. See SOP manual for further footnotes.
FISH-MET	Fish - Metals & Inorganics	Plastic Bag				Frozen (0 deg C)	Place in Zip-loc bag.
FISH-ORG	Fish Tissue - Organic Compound	Aluminum Foil Wrap				Frozen (0 deg C)	Wrap in aluminum foil - shiny side out. Chill immediately. Freeze ASAP. Hold and transport frozen.
GPT	General Preservation and Trans	Plastic Bottle			I	Wet Ice (4 deg C)	Metals preserved w/HNO3 to pH<2; Nutrients w/H2SO4 to pH<2; Common Ions & Solids unpreserved. Shipped cold-pack. Standard EPA recommended hold times observed for specific parameters; generally: Metals - 6 mo; Ca, Mg, Na, K - 28 da; Nutrients - 28 da.
METS	Metals, Water	Polyethylene Bottle	Translucnt	.50	I	Wet Ice (4 deg C)	Minimum .5 L sample. 50% Nitric Acid, pH<2. Chill and transport on wet ice. Holding time 6 months. See SOP manual for futher footnotes.
METS-D	Metals, Dissolved	Polyethylene Bottle	Translucnt	1.00	I	Wet Ice (4 deg C)	Filter on site, preserve w/50% Nitric Acid pH<2. Hold time 6 months. See SOP manual

Sample Preservation, Transport and Storage Profiles

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MT-DEQ

Montana DEQ

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
							for further footnotes.
NUTS	Nutrients, Water	Polyethylene Bottle	Translucnt	1.00	l	Wet Ice (4 deg C)	Preserved with 50% Sulfuric Acid, pH <2; Chill and trnsport on wet ice; Hold time 28 days. See SOP manual for further footnotes.
O&G	Oil & Grease	Glass Bottle	Clear	1.00	l	Wet Ice (4 deg C)	Collected in a wide mouth clear glass container, pre-rinsed with solvent; Containers available through analytical lab. Preserved with 50% Sulfuric Acid to pH<2; Samples are chilled and transported on wet ice. Holding time 28 days.
PHENOL	Phenols	Glass Bottle	Amber	1.00	l	Wet Ice (4 deg C)	50% H2SO4 pH<2. Holding time 28 days.
SED1	Sediment/Sludge	Plastic Bottle	Translucnt	4.00	l	Wet Ice (4 deg C)	Sediment samples are sieved according to the MT DEQ SOP, Chilled and held on wet ice, unpreserved, for transport.
SOLIDS	Solids, TSS & TDS	Polyethylene Bottle	Translucnt	1.00	l	Wet Ice (4 deg C)	Samples for solids are held on wet ice, unpreserved for transport, and analysed ASAP. Holding times vary by parameter.
SULFIDE	Sulfides	Polyethylene Bottle		.50	l	Wet Ice (4 deg C)	2 ml Zinc Acetate, conc. NaOH to pH>9. Hold time 7 days. See SOP manual for further footnotes.
TURB	Turbidity	Polyethylene Bottle	Translucnt	.50	l	Wet Ice (4 deg C)	Samples are chilled and held (unpreserved) on ice for immediate transport to lab. Hold time 48 hours. See SOP manual for further footnotes.
VOC	Volatile Organic Compounds	Glass Vial w/ Septa	Clear	40.00	ml	Wet Ice (4 deg C)	Use 2-3, 40 ml vials. Add 4 drops 1+1 HCL, Holding time 14 days. Samples must me collected with zero headspace. The VOA vial is filled completely. Ascorbic acid is added for chlorinated samples.

Sample Preservation, Transport and Storage Profiles

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MT-DEQ

Montana DEQ

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
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Sample Preservation, Transport and Storage Profiles

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MWRD

Metro Waste Water Reclamation District

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
PHYTO	Phytoplankton	HDPE Bottle	Opaque	250.00	ml	Refrigerated (4 deg C)	Lugol's Iodine Solution, 3 drops per 100 ml sample
ZOO	Zooplankton	HDPE Bottle	Opaque	250.00	ml	Refrigerated (4 deg C)	70% Ethanol Solution, 5 ml per 100 ml sample

Sample Preservation, Transport and Storage Profiles

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PREQB-SW

Puerto Rico

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
SURF-001	surface water transport and st	Plastic Bottle	Clear	500.00	ml	Refrigerated (4 deg C)	Metals and Hardness samples preserved with HNO3 and ph<2 in cool 4 degrees C. Nutrients and TOC samples preserved with H2SO4 and ph<2 in 4 degrees C. Bacteriological and Pesticides preserved in cool 4 degrees C.
SURF-002	Chlorophyll storage and transp	Glass Bottle	Amber	500.00	ml	Refrigerated (4 deg C)	Sample collected in amber cristal bottle, filtered on a 40 microns philter and preserved on 90% acetone and 10% MgCO3 at 4 degrees C.

Sample Preservation, Transport and Storage Profiles

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R2-LAB

New York

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
BACTI	Bacteria	HDPE Bottle	Translucnt	500.00	ml		4 degrees celsius
DO	Dissolved Oxygen	BOD Bottle	Clear	300.00	ml		2 ml Manganous sulfate solution followed by 2ml of Alkali-iodide-azide do not store in direct sun light

Sample Preservation, Transport and Storage Profiles

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R9VOL

Volunteer Monitoring Groups in EPA Region 9 (CALIFORNIA)

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
ST-001	sample transport #1	Glass Bottle	Clear				

Sample Preservation, Transport and Storage Profiles

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SDGEO

South Dakota Geological Survey

ID	Name	Container Type	Container Color	Container Size Unit	Temperature Preservation	Chemical/Preservation
GEO1	Sample Bottle Transport	Plastic Bottle	Clear		Wet Ice (4 deg C)	

Sample Preservation, Transport and Storage Profiles

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TDECDOE

Tennessee Department of Environment and Conservation

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
BACTERIA	Bacteriological Sample Bottle	Nalgene Bottle	Translucnt	250.00	ml	Wet Ice (4 deg C)	Sodium thiosulfate
CYANIDE	Cyanide Sample Bottle	HDPE Bottle	Translucnt	1.00	l	Wet Ice (4 deg C)	5 ml of 50% NaOH
FIELD	Field measurements - no sample					None	
MERCURY	Mercury Sample Bottle	HDPE Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	Nitric acid 5 ml
METALS	Metals Sampling Bottle (water)	HDPE Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	Nitric acid 5 ml
NUTRIENTS	Nutrients Sample Bottle	HDPE Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	Sulfuric acid 1 ml
ROUTINE	Routine Sample Bottle	HDPE Bottle	Translucnt	1.00	l	Wet Ice (4 deg C)	No Chemical Preservative
SED HG	Sediment Mercury	HDPE Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	
SED METALS	Sediment Metals Sample Bottle	HDPE Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	No chemical preservative
SED ORG	Sediment Organics Bottle	Glass Bottle	Amber	500.00	ml	Wet Ice (4 deg C)	No chemical preservative
SED PART	Sediment Particle Size Bottle	HDPE Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	
SED RAD	Sediment Radiological Bottle	HDPE Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	No chemical preservative
SED TOC	Sediment Total Organic Carbon	HDPE Bottle	Translucnt	500.00	ml	Wet Ice (4 deg C)	
WATER	Surface Water Sample Bottles	HDPE Bottle	Translucnt			Wet Ice (4 deg C)	Includes several different bottles: Bacteriological bottles are 250 ml; sodium thiosulfate preservative Cyanide bottles are 1 L; NaOH preservative Mercury bottles are 500 ml; nitric acid preservative Metals bottles are 500 ml; nitric acid preservative Nutrients bottles are 500 ml; sulfuric acid

Sample Preservation, Transport and Storage Profiles

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TDECDOE

Tennessee Department of Environment and Conservation

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
							preservative Routine (hardness, residue) bottles are 1 L; no preservative

Sample Preservation, Transport and Storage Profiles

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TDECWPC

Tennessee Department of Environment and Conservation

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
00010	Temperature						Field parameter - probe Units degrees Centigrade
00061	Flow						Field parameter Units cfs
00070	Turbidity	Plastic Bottle		1.00	l		Preservative - none Holding time - 48 hours Units 0.1 NTU
00080	Color, True	Plastic Bottle		1.00	l		no preservative holding time 48 hours Units PtCoU
00081	Color, Apparent	Plastic Bottle		1.00	l		no preservative holding time 48 hours Units - PtCoU
00095	Conductivity						field parameter - probe Units UMHOS @ 25C
00300	Dissolved Oxygen						Field parameters - probe Units mg/L
00400	pH						Field parameter - probe
00410	Alkalinity	Plastic Bottle		1.00	l		No preservative holding time none Units 1.0 mg/L
00500	Residue, Total	Plastic Bottle		1.00	l		Preservative none Holding time 7 days

Sample Preservation, Transport and Storage Profiles

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TDECWPC

Tennessee Department of Environment and Conservation

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
							Units 10 mg/L
00515	Residue, Dissolved	Plastic Bottle		1.00	l		Preservative - none Holding time 7 days Units 10.0 mg/L
00545	Residue, Settleable	Plastic Bottle		1.00	l		Preservative - none Holding time -48 hours Units 0.1 ml
00610	Nitrogen, Ammonia	Plastic Bottle		500.00	ml		Preservative 1 ml sulfuric acid holding time 28 days Units 0.02 mg/L
00630	Nitrate+ Nitrate	Plastic Bottle		500.00	ml		Preservative 1 ml sulfuric acid Holding time 28 days Units 0.01mg/L
00635	Nitrogen, Total Kjeldahl	Plastic Bottle		500.00	ml		Preservative - 1 ml sulfuric acid Holding time - 28 days Units 0.01 mg/L
00665	Phosphate, Total	Plastic Bottle		500.00	ml		Preservative 1 ml sulfuric acid Holding time 28 days Units 0.004 mg/L
00690	Total Organic Carbon	Plastic Bottle		500.00	ml		Preservative - 1 ml sulfuric acid Holding time 28 days Units 1.0 mg/L
00720	Cyanide	Plastic Bottle		1.00	l		Preservative pH>12, 5ml of 50 % sodiums hydroxide at collection

Sample Preservation, Transport and Storage Profiles

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TDECWPC

Tennessee Department of Environment and Conservation

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
							holding time 14 days Units 0.005ug/L
00900	Hardness, Total	Plastic Bottle		1.00	l		Preservative - none Holding time 14 days Units 1.0 mg/L
00945	Sulfates	Plastic Bottle		1.00	l		Preservative - none Holding time 28 days Units - 2.0mg/L
01002	Arsenic	Plastic Bottle		1.00	l		Preservative 5 ml nitric acid holding time 6 months Units 1.0mg/L
01027	Cadmium	Plastic Bottle		1.00	l		Preservative 5 ml nitric acid holding time 6 months Units 1.0 ug/L
01034	Chromium	Plastic Bottle		1.00	l		Preservative 5 ml nitric acid holding time 6 months Units 1.0ug/L
01042	Copper	Plastic Bottle		1.00	l		Preservative 2.5 ml nitric acid holding time 6 months Units 1.0ug/L
01045	Iron	Plastic Bottle		1.00	l		Preservative 5 ml nitric acid Holding time 6 months Units 25.0 ug/L

Sample Preservation, Transport and Storage Profiles

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TDECWPC

Tennessee Department of Environment and Conservation

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
01051	Lead	Plastic Bottle		1.00	l		Preservative 5 ml nitric acid Holding time 6 months Units 1.0ug/L
01055	Manganese	Plastic Bottle		1.00	l		Preservative - 5 ml nitric acid Holding time 6 months Units 5 ug/L
01067	Nickel	Plastic Bottle		1.00	l		Preservative - 5 ml of nitric acid Holding time 6 months Units 10 ug/L
01092	Zinc	Plastic Bottle		1.00	l		Preservative - 5 ml nitric acid Holding time 6 months Units 1.0 mg/L
01105	Aluminum	Plastic Bottle		1.00	l		Preservative 5ml of nitric acid holding time 6 months Units 100.0 ug/L
01147	Selenium	Plastic Bottle		1.00	l		Preservative - 5 ml of nitric acid Holding time - 6 months Units 2.0 ug/L
31616	Fecal Coliform	Plastic Bottle		125.00	ml	Wet Ice (4 deg C)	Preservative - sodium thio-sulfate either 125ml or 250 ml bottle Holding time - 6 hours Units cfu/100l

Sample Preservation, Transport and Storage Profiles

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TDECWPC

Tennessee Department of Environment and Conservation

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
61223	E. Coli						Units cfu/100ml
71900	Mercury	Plastic Bottle		500.00	ml		Preservative 2.5 ml of nitric acid Plastic or glass bottle Holding time 28 days Units 0.2ug/L
?	Fecal strep	Plastic Bottle		125.00	ml	Wet Ice (4 deg C)	Preservative sodium thiosulfate 125 or 250 ml plastic bottle Units cfu/100ml
?31679	Enterococcus						Units cfu/100ml
BOD_C	BOD, carbonaceous						

Sample Preservation, Transport and Storage Profiles

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USFS0614

Umatilla National Forest

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
BOTTLE01	ISCO large bottle	Plastic Bottle	Translucnt	1000.00	ml		
BOTTLE02	ISCO small bottle	Plastic Bottle	Translucnt	500.00	ml		
BOTTLE03	Grab Bottle	Glass Bottle		500.00	ml		

Sample Preservation, Transport and Storage Profiles

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USVIST

Government US Virgin Islands

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
ST&S-01	Total Suspended Solids	Nalgene Bottle	Translucnt	32.00	oz	Wet Ice (4 deg C)	None
ST&S-02	Coliform/Turbidity/pH Sample	Nalgene Bottle	Translucnt	8.00	oz	Wet Ice (4 deg C)	None
ST&S-03	HACH FC/Turb./pH Sample	Polystyrene Container	Clear	6.00	oz	Wet Ice (4 deg C)	None
ST&S-04	BOD/TSS Sample	Cubitainer	Translucnt	1.00	gal	Wet Ice (4 deg C)	None
ST&S-05	Fecal Effluent Sample	Cubitainer	Translucnt	1.00	qt	Wet Ice (4 deg C)	None
ST&S-06	Sediment Chemistry	Nalgene Bottle	Amber	1.00	l	Wet Ice (4 deg C)	None

Sample Preservation, Transport and Storage Profiles

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UTAHDWQ

Utah Department Of Environmental Quality

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
DWQ-002	Phytoplankton	Plastic Bottle	Translucnt	2.00	qt	Wet Ice (4 deg C)	none
DWQ-003	Macroinvertebrate Sampling	Plastic Bottle	Opaque	500.00	ml	None	95% Ethanol
DWQ-004	Periphyton	Plastic Bottle	Opaque	1.00	pt	Dry Ice (-78.5 deg C)	

Sample Preservation, Transport and Storage Profiles

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WSSC

Water Sentinels Sierra Club

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
STS-001	water sample- nutrients	HDPE Bottle	Translucnt	1.00	l		refrigerated or cooled to 4degrees. pH adjusted to <2 with H2SO4
STS-002	macroinvertebrate sample	HDPE Bottle	Clear	1.00	gal		ideally, the critters will be carefully returned to their home after lab analysis. otherwise, preserve by adding ethanol to 70% vol/vol

Sample Preservation, Transport and Storage Profiles

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WY-DEQ

Wyoming Dept. of Environmental Quality

ID	Name	Container Type	Container Color	Container Size	Unit	Temperature Preservation	Chemical/Preservation
SAMPLE-BM	Benthic Macroinvertebrates	Nalgene Bottle	Translucnt	1.00	I	None	The Benthic Macroinvertebrates are preserved in a Formalin mixture; isopropyl alcohol mixed with Formaldehyde.
SAMPLE-WAT	Container;Grab Sample	Plastic Bottle	Translucnt			Wet Ice (4 deg C)	Preservation, bottle size and storage is dependent upon parameter being analyzed.